FORM PTO-1449 U.S. DEPARTMENT OF COMMEDIA (Modified) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ARK OFFICE COLOR

ATTY. DOCKET NO. 5889.12	SERIAL NO. 10/022,137
APPLICANT: Brian T. BOYD et al.	
FILING DATE December 12, 2001	GROUP 1724

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BMA	1.	2,925,371	02/16/1960	Van Winckel et al.			
	2.	4,078,987	03/14/1978	Specht			
	3.	4,500,401	02/19/1985	Clark et al.			
	4.	5,372,689	12/13/1994	Carlson et al.			
	5.	5,460,705	10/24/1995	Murphy et al.			
	6.	5,547,551	08/20/1996	Bahar et al.			
	7.	5,766,488	06/16/1998	Uban et al.			
	8.	5,989,407	11/23/1999	Andrews et al.			
	9.	6,042,958	03/28/2000	Denton et al.			
	10.	6,299,998	10/09/2001	Morris et al.			·
	11.	6,309,521	10/30/2001	Andrews et al.			
	12.	6,551,474	04/22/2003	Andrews et al.			
BMM	13.	6,551,490	04/22/2003	Andrews et al.			

EXAMINER INITIAL		PUBLICATION NUMBER	PUBLICATION DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BNM	14.	20020130036	09/19/2002	Andrews et al. (App. 10/079,722)			02/19/2002
	15.	2 00201346 74	09/26/2002	Andrews et al. (App. 10/016,482)			12/10/2001
BMIL	16.	20020139690	10/03/2002	Kanaya et al. (App. 09/926,344)			10/17/2001
BMA	17.	20020164702	11/07/2002	Valenzuela et al. (App. 10/016,283)			11/30/2001
	18.	20030029734	-02/13/2003	Andrews et al. (App. 09/955,734)			09/19/2001
RMA	19.	20030209447	11/13/2003	Andrews et al. (App. 10/392,231)			03/19/2003

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 5889.12	SERIAL NO. 10/022,137
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT: Brian T. BOYD et al.	
(Use several sheets if necessary) JAN 1 1 2004	FILING DATE December 12, 2001	GROUP 1724
MADEMARK		

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATIONS

			DOCUMENT	PUBLISHED				TRANSL	ATION
			NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
B	M	20.	EP 0 711 731 A2	05/15/1996	EP	•			
Γ	1	21.	EP 0 711 731 A3	02/19/1997	EP	-			
		22.	EP 1 038 993 A1	09/27/2000	EP			· ·	
		23.	WO 94/07802	04/14/1994	PCT/AU93/00519				
		24.	WO 95/16730	06/22/1995	PCT/US94/14366				<u> </u>
		25.	WO 01/61074	02/02/2001	PCT/JP01/00779				
		26.	WO 02/48431	06/20/2002	PCT/US01/48346				
187	md	27.	WO 03/062494	07/31/2003	PCT/US02/01768				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BMA	28.	M. Pourbaix, N. De Zoubov, C. Vanleugenhaghe & P. Van Rysselberghe, Lead 1, Section 17.5, Atlas of Electrochemical Equilibria, pages 485-492 (1974)					
EXAMIN	ER C	Betsum Hour DATE CONSIDERED 5/9/05					
EXAMIN and not ec	ER: Initia	I if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformal Include copy of this form with next communication to applicant.					

FORM PTO-14	49 U.S. D	EPARTMENT OF COM IT AND TRADEMARK	MERCE	ATTY. DOCKET NO. APPLN. NO. 1339/US/1 10/022,137						
The state of the s	PAIEN	IT AND TRADEMARK	OFFICE	1000/00/						
INE	RMATION	DISCLOSURE		APPLICANT:						
ST	NTEMENT	BY APPLICANT		Boyd et al.						
M 1 1 2000 (1)	several	sheets if necessary)		FILING DATE ART UNIT						
3	IJ			December 12, 200	1	1724				
A TOAD	<u></u>				L	· · · · · · · · · · · · · · · · · · ·				
TENT & TRAU			U.S. PAT	ENT DOCUMENTS						
EXAMINER	T I	PATENT	ISSUE	Γ		FILING DATI				
INITIAL		NUMBER	DATE	PATENTEE	CLASS	SUBCLASS	APPRO	PRIA		
20 - CO I	1.	5,993,618	11/30/1999	Schulze et al.			 			
RW14	<u> </u>	5,993,016	11/30/1999	Schulze et al.			-			
							↓			
			<u></u>							
							1			
										
				TION DOCUMENTS			FILING			
EXAMINER		PUBLICATION	PUBLICATION							
INITIAL		NUMBER	DATE	PATENTEE	CLASS	SUBCLASS	APPRO	P KJA		
	 									
	1	ļ	,							
		,								
		,								
		FOREIGN PATE	ENT OR PUBLIS	SHED FOREIGN PATE	NT APPLIC	ATION				
EXAMINER		FOREIGN PATE	ENT OR PUBLIS	SHED FOREIGN PATE	NT APPLIC	ATION	TRANS	LAT		
EXAMINER INITIAL				COUNTRY	NT APPLIC	ATION	TRANS			
		DOCUMENT	PUBLISHED							
		DOCUMENT	PUBLISHED							
		DOCUMENT	PUBLISHED							
		DOCUMENT	PUBLISHED							
		DOCUMENT	PUBLISHED							
		DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS				
INITIAL		DOCUMENT NUMBER	PUBLISHED DATE		CLASS	SUBCLASS				
INITIAL		DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS				
INITIAL		DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS				
INITIAL		DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS				
INITIAL	-	DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS				
INITIAL		DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS				
EXAMINER INITIAL		DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY Author, Title, Date, Pertin	CLASS	SUBCLASS tc.)		LATI		
INITIAL		DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY Author, Title, Date, Pertin	CLASS	SUBCLASS tc.)				

FORM PTO-14	49 U.S	S. DEPARTMENT OF	COMMERCED		ATTY. DOCKET			SERIA		
(Modified)	PAI	ENT AND TRADEM	ARKOFFICE	10138	5889.12 (13	39/US/1)		10/02	22,137	
INFORMATIO STATEMENT			JAN 1 5 a		APPLICANT:					
STATEMENT	BY AP	PLICANI	JAN 152	004 E	Brian T. Bo	OYD et al.				
(Use several she	eets if no	ecessary)	(B)	.S/	FILING DATE	12 2001		GROU		
<u>-</u>			TRADE!	1.Riv	December 1	12, 2001		1724		
			U.S. P.	ATENT	DOCUMENTS					
EXAMINER		PATENT	ISSUE			T			FILING D	ATE IF
INITIAL		NUMBER	DATE	P	ATENTEE	CLASS	SUBCL	ASS	APPROP	RIATE
EXAMINER	1	PUBLICATION	PUBLICATION	Т і	PATENTEE	CLASS	SUBC	LASS	FILING I	DATE IF
INITIAL		NUMBER	DATE						APPROI	
mm 1	1.	20030080467	05/01/2003	Andre	ws et al.				09/30/20	02
19114				(App.	10/262,558)			-		
		FOREIGN PA	ATENT OR PUB	LISHED	FOREIGN PA	TENT APPL	ICATIO	NS		
	\neg	DOCUMENT	PUBLISHEI	D			[TRANSL	ATION
		NUMBER	DATE		COUNTRY	CLASS	SUBCI	ASS	YES	NO
·		ОТНЕ	R DOCUMENTS (In	ncluding A	uthor, Title, Date, F	Pertinent Pages,	Etc.)		· .	
EXAMINER	B	etoes W	7. Hoey		DAT	E CONSIDER	ED 5	9/0	5	
		citation considered, w dude copy of this form				EP 609; Draw lin	ne through	citation	if not in conf	ormance

Polyta Fro 144	ed) PAT	EPARTMENT OF TENT AND TRAD		5889.12 (13	ATTY. DOCKET NO. SERIAL NO. 10/022,137					
FEB 0 9 2004		RMATION DISCL EMENT BY APPL			APPLICANT: Brian T. BOYD et al.					
ار مزمونیون	(Use s	several shects if nec	essary)		FILING DATE December	12, 2001		GROU 1724	P	
WAI E										
			U.S. PA	ATENT	DOCUMENTS					
EXAMINER INITIAL					ATENTEE	CLASS	SUBCLA	ASS	FILING I	
<u> </u>		}				•				
EXAMINER INITIAL	1	PUBLICATION NUMBER	PUBLICATION DATE	F	PATENTEE	CLASS	SUBCL	ASS	FILING I	
IMITAL										
Bmd	1. 2	0020070123	06/13/2002		ws et al. 09/981,670)			,	10/17/20	01
		FOREIGN PA	TENT OR PUB	LISHED	FOREIGN PA	TENT APPL	ICATION	is		
	T	DOCUMENT	PUBLISHED)		Τ	1		TRANSL	ATION
		NUMBER	DATE		COUNTRY	CLASS	SUBCL.	ASS	YES	NO
		OTHER	DOCUMENTS (In	cluding A	ithor, Title, Date,	Pertinent Pages,	Etc.)			
					· · · · · · · · · · · · · · · · · · ·					·
	<u> </u>									
EXAMINER \	10et	our	Hoer		DAT	TE CONSIDERI	5/ED_5	19 lc	25	
EXAMINER: Ini	tial if cita ed. Includ	tion considered, wl e copy of this form	nether or not estation with next communi	n is in conf cation to a	ormance with MP	EP 609; Draw li	ne through o	citation	if not in conf	ormance

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Mggsified) PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 1339/US/1	APPLN. NO. 10/022,137
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT: Boyd et al.	
JUN 0 8 2004 (Use several sheets if necessary)	FILING DATE December 12, 2001	ART UNIT 1724
PADFMARK		

-			U.S. PA	ATENT DOCUMENT	'S		
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BMA	1.	5,187,025	02/16/1993	Kelland et al.	429	33	
J	2.	6,368,740	04/09/2002	Dristy	429	35	
MARI	3.	6,649,097	11/18/2003	Sasaki et al.	264	102	
				<u> </u>			

 DOCUMENT	PUBLISHED				TRANSL	ATION
NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
;					··	
 						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
AMINER BELLOWYM. HOLL 5/9/05
AMINER: Initial if citation considered, whether or rost citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. 1339/US/1	APPLN. NO. 10/022,137
APPLICANT: Boyd et al.	
FILING DATE	ART UNIT
December 12, 2001	1127

	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
1.	6,461,487	10/08/2002	Andrews et al.	204	262	
2.	6,576,096	06/10/2003	Andrews et al.	204	262	
ļ	_					
		NUMBER 1. 6,461,487	NUMBER DATE 1. 6,461,487 10/08/2002	NUMBER DATE PATENTEE 1. 6,461,487 10/08/2002 Andrews et al.	NUMBER DATE PATENTEE CLASS 1. 6,461,487 10/08/2002 Andrews et al. 204	NUMBER DATE PATENTEE CLASS SUBCLASS 1. 6,461,487 10/08/2002 Andrews et al. 204 262

	DOCUMENT	PUBLISHED				TRANSL	ATION
÷	NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
		-1		1			
							+
					1		1

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
EXAMINER	Blow M. Hour S/9/05
EXAMINER: Initi	al if citation considered, whether or not disation is in conformance with MPEP 609; Draw line through citation if not and not considered. Include copy of this form with next communication to applicant.

FORM BO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY, DOCKET NO.	APPLN. NO.	
1339/US/1	10/022,137	
APPLICANT:		
Boyd et al.		
FILING DATE	ART UNIT	
December 12, 2001	1724	

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BMA	1.	3,846,176	11/1974	Kuhl			
	2.	6,057,054	05/2000	Barton et al.	-		
)	3.	6,423,439	07/2002	Barton et al.			
	4.	6,596,427	07/2003	Wozniczka et al.			
BMA	5.	6,770,396	08/2004	Hatoh et al.			
							

-	$\neg \top$	DOCUMENT	PUBLISHED	· · · · · · · · · · · · · · · · · · ·	T	<u> </u>	TRANSI	ATION
		NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NC
31777	6.	WO 99/04446	01/1999	WIPO				X
				-				

		OTHER DOCUMENTS (Including Au	thor, Title, Date, Pertinent Pages, Etc.)
EXAMINE	46	etour M. Hoes	DATE CONSIDERED 5/9/05
EXAMINEI in conform	R: Initia nance a	l if citation considered, whether of not citation nd not considered. Include copy of this form w	is in conformance with MPEP 609; Draw line through citation if not ith next communication to applicant.

DEPARTMENT OF COMENT AND TRADEMARK		1339/US/1		APPLN. NO. 10/022,137		
II MT APPLILANI		APPLICANT:				
al sheets if necessary)			· · · · · ·	ART UNIT		
,,			1	1724		
	U.S. PAT	ENT DOCUMENTS				
PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING APPRO	
6,110,333	08/29/2000	Spethmann et al.				
			-			
			<u> </u>	<u> </u>		
1 ' 1					L	
				;		
DOCUMENT	PUBLISHED	SHED FOREIGN PATEN		ATION	TRANS	
		COUNTRY	CLASS		TRANS	LATION
DOCUMENT	PUBLISHED	<u> </u>		ATION		
DOCUMENT	PUBLISHED	<u> </u>		ATION		
DOCUMENT	PUBLISHED	<u> </u>		ATION		
DOCUMENT	PUBLISHED	<u> </u>		ATION		
DOCUMENT NUMBER	PUBLISHED DATE	<u> </u>	CLASS	SUBCLASS		
DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS		
DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS		
DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS		
DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS		
	PATENT NUMBER	U.S. PAT PATENT ISSUE NUMBER DATE	N DISCLOSURE IT BY APPLICANT Boyd et al. FILING DATE December 12, 200 U.S. PATENT DOCUMENTS PATENT ISSUE NUMBER DATE PATENTEE	APPLICANT: Boyd et al. FILING DATE December 12, 2001 U.S. PATENT DOCUMENTS PATENT ISSUE NUMBER DATE DATE PATENTEE CLASS	APPLICANT: Boyd et al. FILING DATE December 12, 2001 U.S. PATENT DOCUMENTS PATENT ISSUE NUMBER DATE PATENTEE CLASS SUBCLASS	APPLICANT: Boyd et al. FILING DATE December 12, 2001 U.S. PATENT DOCUMENTS PATENT ISSUE NUMBER DATE PATENTEE CLASS SUBCLASS PATENT APPLICANT: Boyd et al. ART UNIT 1724 FILING DATE PATENTEE CLASS SUBCLASS FILING APPRO

STAT	TATELLI PARE TITO TENE	MMERCE OFFICE	ATTY. DOCKET NO. 1339/US/1 10/022,137					
STAT		0.1102	1		10/022,137			
(Use	MATION DISCLOSURE EMENT BY APPLICANT		APPLICANT: Boyd et al.					
(21)	several sheets if necessary)		FILING DATE		ART UNIT			
			December 12, 200	1	1724			
1380 E						_		
RATE AND THE PARTY OF THE PARTY		U.S. PAT	ENT DOCUMENTS					
EXAMINER	PATENT	ISSUE				FILING		
INITIAL	NUMBER	DATE	PATENTEE	CLASS	SUBCLASS	APPRO	PR	
						<u> </u>		
					-			
·								
		<u> </u>				<u> </u>		
		U.S. PUBLICA	TION DOCUMENTS					
EXAMINER INITIAL	PUBLICATION NUMBER	PUBLICATION DATE	PATENTEE	CLASS	SUBCLASS	FILING APPRO		
BM31	1. 2003/0235530	12/25/2003	Cisar et al.					
						ļ		
			<u> </u>		<u></u>	<u> </u>		
·	FOREIGN PAT	ENT OR PUBLIS	SHED FOREIGN PATE	NT APPLICA	ATION			
EXAMINER	DOCUMENT	PUBLISHED			1	TRANS	LA	
INITIAL	NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES		
					<u> </u>			
							<u> </u>	
					<u> </u>			
						+	┡	